| Index of | Claims |
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|          |        |

| Application No.      | Applicant(s) | _ |
|----------------------|--------------|---|
| 10/826,286           | LEE ET AL.   |   |
| Examiner             | Art Unit     |   |
| Gregory R. Del Cotto | 1751         |   |

|   | <b>√</b> | Rejected |  |
|---|----------|----------|--|
| - | =        | Allowed  |  |

|   | _ | (Through numeral)<br>Cancelled |
|---|---|--------------------------------|
| - |   | Restricted                     |

| N | Non-Elected  |   |
|---|--------------|---|
| ı | Interference | - |

| Α | Appeal   |
|---|----------|
| o | Objected |

| Ci       | laim Date                  |              |   |   |          |              |   |          |   |           |              |          |              |
|----------|----------------------------|--------------|---|---|----------|--------------|---|----------|---|-----------|--------------|----------|--------------|
| }        | Original                   | 9            |   |   |          | Ī            |   | T        |   |           | Τ            |          | 7            |
| Final    | ਵ                          | 11           | ; |   |          | -            |   |          |   |           |              |          |              |
| iI       | Ö                          | l,           | 4 |   |          | 1            |   | 1        |   |           |              | 1        |              |
|          | ļ.,                        | 10           | 4 |   | ╀        | _            |   | $\bot$   |   | ļ         | 퇶            | 1        | _            |
| -        | 1<br>2<br>3<br>4<br>5<br>6 | ϯ.           | 4 |   | ╄        | 4            | _ | +        |   |           | $\perp$      | +        | +            |
|          | 2                          | +            | + |   | +-       | +            | _ | ╀        |   | -         | ╀            | +        | +            |
|          | 1                          | +            | + |   | +        | +            | _ | +        | - | -         | ╁            | +        | +-           |
| <u> </u> | 5                          | ╁            | + |   | ╁        | +            |   | +        |   | $\vdash$  | +            | +        | +            |
|          | 6                          | +            | 1 | _ | ╁╴       | +            |   | +        |   |           | t            | +        | $\top$       |
|          | 7                          | Ì            | 1 |   | 1        | 1            | _ | T        |   | _         | T            | +        | +            |
|          | 8                          | T            | 1 |   | Ī        |              |   |          |   |           | T            | $\top$   |              |
|          | 9                          |              |   |   |          |              |   |          |   |           |              |          |              |
|          | 10                         |              | 1 |   | L        |              |   |          |   |           | L            |          |              |
|          | 11                         | 1            | 1 |   | L        | 1            |   |          | _ |           | L            | ┶        | $\perp$      |
|          | 12                         | ╀            | 4 |   | $\perp$  | 4            |   | ╀        | 4 |           | <u> </u>     | L        | 1            |
|          | 13                         | 1            | 4 |   | 1        | 4            |   | +        | 4 |           | -            | -        | ╁            |
|          | 13<br>14<br>15             | +            | + |   | $\vdash$ | +            |   | ╀        | 4 |           | ┞-           | +        | +            |
|          | 15                         | ╀            | + |   | -        | +            |   | ╀        | 4 |           | -            | +        | <del> </del> |
|          | 16<br>17                   | ╀            | + | - | ╁        | +            |   | ╁        | 4 |           | ┝.           | +-       | -            |
|          | 18                         | +            | + |   | ╁╌       | +            |   | ╁╌       | + |           | ├            | ╁        | +            |
|          | 19                         | t            | † | _ | H        | $^{\dagger}$ |   |          | + |           | <del> </del> | ╁        | ╁╴           |
|          | 20                         | 1            | 4 |   | T        | t            | _ | $\vdash$ | Ť |           | Ι-           |          | +-           |
|          | 21                         | 1            | T | _ | T        | t            |   | T        | 1 |           |              | t        | †            |
|          | 21<br>22                   | П            | T | _ |          | Ť            |   | Γ        | 1 |           | ļ            | $\top$   |              |
|          | 23<br>24<br>25             | П            | Ι |   |          | Ī            |   |          |   |           |              | Ì        |              |
|          | 24                         | Ц            | I |   |          |              |   |          | I |           |              |          |              |
|          | 25                         | Щ            | 1 |   | L        | 1            |   | L        | 1 |           | L            | _        |              |
|          | 26                         | 4            | 1 |   | Ĺ        | 1            |   | L        | 1 |           |              | <u> </u> |              |
|          | 27                         | #            | + |   |          | +            | _ | L        | + |           | _            | <b>├</b> | 1            |
|          | 28<br>29                   | ₩            | + | _ | $\vdash$ | +            | _ | L        | + |           | -            |          | -            |
|          | 30                         | #            | ╀ | _ | -        | ╀            |   |          | + |           | _            | ⊢        | -            |
|          | 31                         | ╫            | ╁ | - |          | +            |   | _        | t |           | -            | <u> </u> | H            |
|          | 32                         | $^{\dagger}$ | t | - | _        | t            | _ | -        | t |           | -            | $\vdash$ | 1-1          |
|          | 33                         | 1            | t | - | _        | t            |   | $\vdash$ | t |           | -            | $\vdash$ | $\vdash$     |
|          | 34                         | $\Pi$        | T |   |          | Ť            |   | _        | t |           |              |          | П            |
|          | 35                         |              | Ι |   |          | Γ            |   |          |   |           |              |          |              |
|          | 36                         | $\prod$      | Γ |   |          | Γ            |   |          | Γ |           |              |          |              |
|          | 37<br>38                   | Ц            | 1 | _ |          | L            |   |          | L |           |              |          |              |
|          | 38                         | Щ            | L | 4 |          | ļ            |   |          | ļ |           |              | L        | Ш            |
|          | 39                         | $\sqcup$     | L | 4 |          | L            | _ |          | L | 4         |              | _        | Ш            |
|          | 40                         | $\vdash$     | H | - |          | H            |   | <u> </u> | + | $\dashv$  |              | _        | $\vdash$     |
| $\dashv$ | 41<br>42                   | Н            | H | - |          | H            | - |          | ╀ |           |              | -        | Н            |
|          | 43                         | H            | H | - |          | +            | ٦ |          | ╁ |           |              |          | Н            |
| $\dashv$ | 44                         | $\dashv$     | H | + |          | H            | + |          | t | $\dashv$  |              | H        | $\vdash$     |
|          | 45                         | $\dashv$     | ✝ | + | _        | t            |   |          | t | -         | -            |          | $\vdash$     |
|          | 46                         | 7            | Γ | 1 | _        | T            | 7 |          | T | T         |              | Н        | H            |
|          | 47                         | $\checkmark$ | Γ | 7 |          | Γ            | 1 |          | T | $\exists$ |              | _        | П            |
|          | 48                         |              |   |   |          |              | ] | _        |   | J         |              |          |              |
|          | 49                         |              | L |   |          |              |   |          | Γ |           |              |          |              |
|          | 50                         |              | _ | Т |          | _            | 7 |          | Г | $\neg$    |              | _        | -1           |

| С               | laim     |          |          |           |           |   |          |   |           |              |              |           |          |              |
|-----------------|----------|----------|----------|-----------|-----------|---|----------|---|-----------|--------------|--------------|-----------|----------|--------------|
| Final           | Original | ,        |          |           |           |   |          |   |           | ŀ            |              |           |          |              |
|                 | 51       | T        | 1        |           | 7         |   | †        |   | T         | 十            | $\dagger$    |           | T        | $\dagger$    |
|                 | 52       | 1        | 7        |           | 7         |   | 1        |   | Г         | $\top$       | T            |           | Γ        | T            |
|                 | 53       |          | 1        |           | 1         |   | T        |   | Т         |              | Ť            |           |          | 1            |
|                 | 54       |          |          |           | Ī         |   | Т        |   | Г         |              |              |           |          | T            |
|                 | 55       | $\top$   |          |           | I         |   |          |   |           | T            |              |           |          | Ī            |
|                 | 56       |          |          |           |           |   | Ι        |   |           |              | T            |           |          |              |
|                 | 57       |          | 1        |           | 1         |   |          |   |           |              |              |           |          | L            |
|                 | 58       | $\perp$  | 4        | _         | 1         |   | 1        |   | L         | ┸            | 1            |           |          | 1            |
| <u> </u>        | 59       |          | 4        |           | 1         |   |          |   | L         | ┸            | $\perp$      |           |          | _            |
|                 | 60       | _        | 4        |           | 4         |   | 1        |   | _         | ┸            | $\downarrow$ |           |          | 1            |
|                 | 61       | $\perp$  | 4        |           | 4         | _ | 4        |   | _         | 4            | 1            | _         |          | $\downarrow$ |
| <u> </u>        | 62       | 4-       | 4        |           | +         |   | 4        |   | _         | -            | +            | _         |          | $\perp$      |
| <u> </u>        | 63       | +-       | 4        |           | +         |   | +        |   |           | -            | +            | 4         |          | +            |
|                 | 64       | +-       | 4        |           | +         |   | ╀        | _ | L         | -            | +            | _         |          | ╀            |
|                 | 65<br>66 | -        | +        |           | +         |   | ╀        | _ | _         | +-           | ╀            | _         |          | ╀            |
| -               | 67       | ╀        | +        |           | +         | _ | ╁        | _ | L         | +-           | +            | 4         |          | ╀            |
| -               | 68       | ╁        | +        |           | $^{+}$    |   | ╀        | + | _         | +            | ╁            | 4         |          | +-           |
|                 | 69       | +        | $^{+}$   | _         | ╁         |   | ╁        | + | -         | +            | ┿            | 1         |          | +            |
|                 | 70       | +        | +        |           | +         |   | +        | - | -         | ╁            | +            | ┪         | _        | +            |
|                 | 71       | ╁        | +        | _         | $\dagger$ | - | t        | 1 |           | +            | +            | 1         | _        | +            |
|                 | 72       | +        | t        | -         | t         |   | t        | 1 |           | f            | ╁            | +         |          | ╁            |
|                 | 73       | t        | †        |           | t         |   | t        | + |           | T            | +-           | 1         |          | ╫            |
|                 | 74       | T        | t        | _         | t         |   | t        | 1 |           | t            | +-           | +         |          | ╁╌           |
|                 | 75       | 1        | t        |           | t         |   | t        | ┪ |           | <del> </del> | t            | 7         |          | T            |
|                 | 76       | 1        | t        | _         | t         | _ | T        | 1 |           | 1            | $\dagger$    | 7         |          | t            |
|                 | 77       | 1        | T        |           | T         | _ | T        | T |           | 1            | t            | 1         |          | T            |
|                 | 78       |          | T        |           | T         |   | 1        |   |           | T            | T            | 1         |          | ı            |
|                 | 79       |          | Ι        |           | Ι         |   |          |   |           |              |              | 1         |          |              |
|                 | 80       |          | L        |           | L         |   |          |   |           |              |              | $\rfloor$ |          |              |
|                 | 81       | L        | ┸        |           | L         |   | L        |   |           |              | L            |           |          |              |
| ļ               | 82       | L        | L        |           | L         |   | L        | 1 |           | L            |              |           |          | L            |
|                 | 83       | <u> </u> | L        |           | L         |   | L        | 1 |           | L            | ┖            | 1         |          | L            |
|                 | 84       | <u> </u> | L        |           | L         |   | L        | 1 |           | L.           |              | 1         |          | L            |
| <u> </u>        | 85       | ļ.,      | Ļ        |           | L         |   | L        | 1 |           | L.           | L            | 1         |          | L.           |
| <u> </u>        | 86       | ļ_       | ↓.       | _         | L         |   | _        | 4 |           | _            | L            | 4         |          | L            |
| ļ               | 87       | ├        | ╀        |           | L         | _ | -        | 4 |           | L            | L            | 4         |          | <u> </u>     |
|                 | 88       | ├        | ╀        | _         | L         | _ | L        | 4 |           |              | ļ.           | 1         | _        | _            |
| <u> </u>        | 89       |          | ╀        | _         | L         |   |          | + | _         | <b>├</b> ─   | Ļ            | +         |          | L            |
|                 | 90       | ⊢        | ╀        | -         | H         | _ |          | + |           |              | -            | +         |          |              |
| -               | 91       |          | ╀        | _         | L         | _ | _        | + | _         | <u> </u>     | -            | +         |          | _            |
| -               | 92<br>93 | $\vdash$ | H        | _         | $\vdash$  | - | -        | + |           | <u> </u>     | $\vdash$     | ╀         | -        |              |
| $\vdash$        | 94       | $\vdash$ | ├        | -         | H         | ۲ | $\vdash$ | + | _         | -            | -            | +         | -        | _            |
| $\vdash$        | 95       | $\vdash$ | $\vdash$ | -         | H         | - | _        | + | -         | -            | -            | +         | -        |              |
| $\vdash \dashv$ | 96       | -        | $\vdash$ | -         | -         | - | -        | + | _         |              | $\vdash$     | +         | $\dashv$ | <u> </u>     |
| $\vdash$        | 97       |          | H        |           |           | 4 | _        | + | _         |              | -            | +         | -        | -            |
| $\vdash$        | 98       |          | H        | $\exists$ |           | + | _        | + | -         |              |              | t         | -        |              |
|                 | 99       | $\vdash$ | H        | ᅥ         | -         | 7 |          | t | $\exists$ |              | $\vdash$     | t         | ᅱ        | _            |
|                 | 100      |          | T        | ┪         |           | 7 |          | t |           |              | $\vdash$     | t         | 7        |              |

|              | J                 |          |              |         |          |              |              |              | _            |          |
|--------------|-------------------|----------|--------------|---------|----------|--------------|--------------|--------------|--------------|----------|
| Ci           | aim               |          |              |         |          | D            | ate          |              |              |          |
| Final        | Original          |          |              |         |          |              |              |              |              |          |
|              | 101               | H        | t            | +-      | +        | +            | +            | - -          | +            | +-       |
|              | 101<br>102        |          | $\top$       | T       | T        | $\dagger$    | +            | T            | $\top$       | †        |
|              | 103               |          | T            | 十       |          | Ţ            | $\top$       | T            | ✝            | 1-       |
|              | 104               |          | T            | T       | Ť        |              | $\top$       |              | 1            | 1        |
|              | 105               |          |              |         |          |              |              | T            | 1            |          |
|              | 106               |          | $oxed{\Box}$ |         |          |              |              |              |              | T        |
|              | 107               |          |              | Ţ       | $\perp$  | $\perp$      |              |              | L            |          |
|              | 108               |          | $\perp$      |         | ┸        | ┸            | _            | $\perp$      |              |          |
| L            | 109               |          | 1            | ↓       |          | _            |              | <u> </u>     |              |          |
| <u></u>      | 110               |          | 1_           | $\perp$ | ╀        | 4            | -            | $\perp$      | 4_           | _        |
| <u> </u>     | 111               |          | 1            | $\perp$ | _        | 1            | $\perp$      | 4            | 4            | ↓_       |
|              | 112               |          | ├            | ╀       | -        | $\downarrow$ | 4            | _            |              |          |
| -            | 113               |          | ╁┈           | ╀       | ╁        | +            | -            | ╄            | ╀            | -        |
| -            | 114               |          | ╀            | ╁       |          | +            | - -          | +            | +            |          |
|              | 115<br>116        |          | ╀            | ╀       | ╀        | +            |              | +            | +            | +        |
| $\vdash$     | 117               |          | -            | +       | +        | +            | +            | +            | +-           | +        |
|              | 118               |          | -            | ╁       | ╂╌       | +            | +-           | +            | +            | -        |
|              | 119               | _        | ┢            | ╁╌      | +        | +            | +            | +            | +            | ┼─       |
|              | 120               |          | H            | +       | +        | +-           | ╁            | ╁┈           | +            | ╁─┤      |
| <del></del>  | 121               |          | ┢            | ┼       | +        | ╁            | +            | ╁            | +            | +        |
| H            | 120<br>121<br>122 |          |              | ╁       | +-       | t            | +-           | +            | ╁            | +        |
|              | 123               | _        | <del> </del> | T       | +        | $^{+}$       | +            | ╁╌           | ╁            | ╁┤       |
|              | 123<br>124        |          | T            | t       | †-       | Ť            | †            | 十            | $^{+}$       | H        |
|              | 125               |          |              | Т       | T        | 1            |              | $\top$       | 1            |          |
|              | 125<br>126        |          |              |         |          | I            |              |              | Τ            | $\Box$   |
|              | 127               |          |              |         |          | L            | L            |              |              |          |
|              | 128<br>129        |          | _            |         | _        | $\perp$      | 1_           | 1_           | L            | Ш        |
|              | 129               |          |              | _       | _        | 1            | 丄            | <u> </u>     | <u> </u>     | Ш        |
|              | 130               | _        | <u> </u>     | ⊢       | ╁        | ╀            |              | _            |              |          |
|              | 131<br>132        |          |              | ⊢       | ┼-       | ╁            | +-           | ╁            | ⊬            | $\vdash$ |
| -i           | 133               |          | _            | ⊢       | ┼-       | ╁            | ┰            | ╁┈           | ╁            | $\vdash$ |
|              | 134               |          |              | ⊢       | -        | +            | ╁            | ╁─           | +            | $\vdash$ |
|              | 135               |          |              |         | H        | H            | +            | ╁            | ╁─           | Н        |
|              | 136               |          |              |         | <u> </u> | t            | +            | +            | 1            | $\vdash$ |
|              | 137               |          |              |         | T        | 1            | 1-           | T            | Г            | Ħ        |
|              | 138               |          |              |         |          |              |              | 1            | Г            | П        |
|              | 139               |          |              |         | _        |              | L            |              |              |          |
|              | 140               | 4        |              |         |          | ļ            | ↓_           | <u> </u>     | <u> </u>     |          |
|              | 141               | _        |              | _       | _        | -            | 1            | <u>L</u>     | _            | Ц        |
|              | 142               | $\dashv$ | _            | _       | <u> </u> |              | <del> </del> | <del> </del> | $\vdash$     |          |
| <del> </del> | 143<br>144        | $\dashv$ |              | -       | -        | $\vdash$     | +            | <del> </del> |              | $\vdash$ |
|              | 145               | -        |              |         | -        | ┼            | +-           | $\vdash$     | <del> </del> | $\vdash$ |
|              | 146               | +        |              |         | -        | ┢            | 一            | <del> </del> | $\vdash$     | $\vdash$ |
|              | 147               | $\dashv$ | $\neg$       |         | $\vdash$ | $\vdash$     | +            | -            | $\vdash$     | $\dashv$ |
|              | 148               | $\dashv$ | ٦            |         | $\vdash$ | $\vdash$     | f            | $\vdash$     |              | $\vdash$ |
|              | 149               | $\dashv$ |              |         |          | Γ            | 1            | T            | М            | $\dashv$ |
|              | 150               |          |              | _       |          |              | L            | <u> </u>     |              |          |
|              |                   |          |              |         |          |              |              | -            |              |          |